

Fig. 1

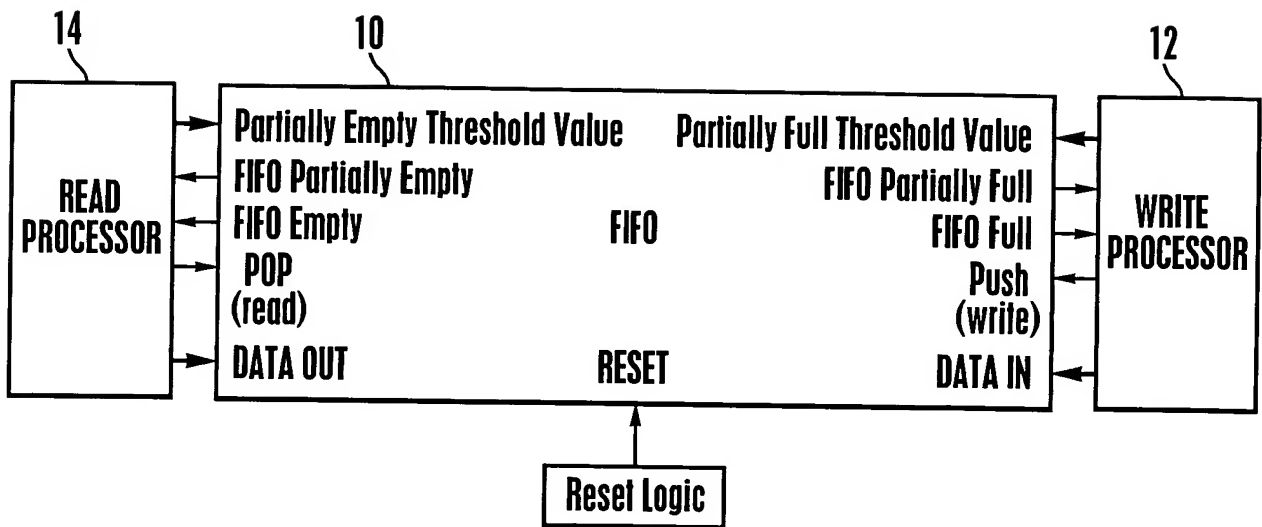
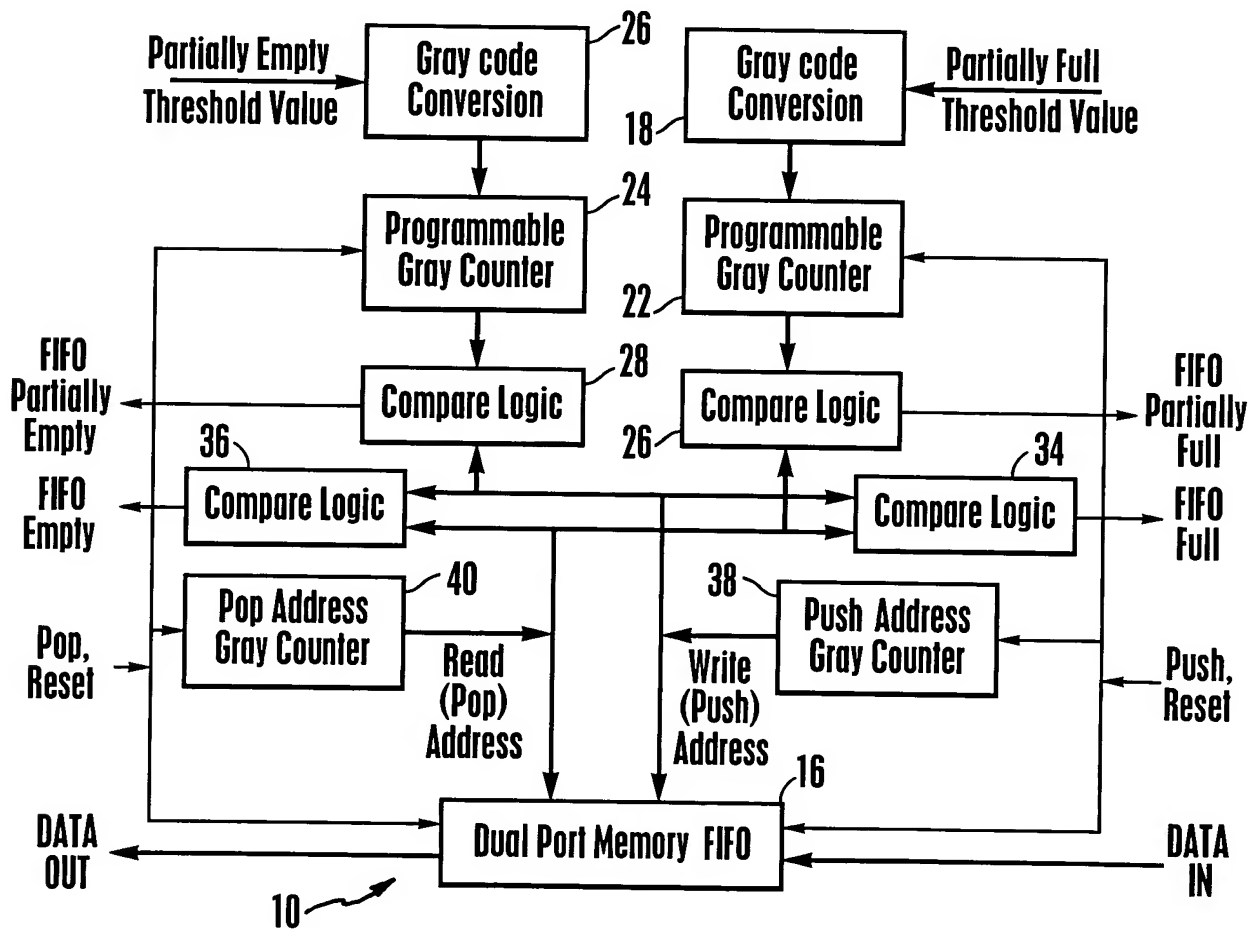


Fig. 2 FIFO



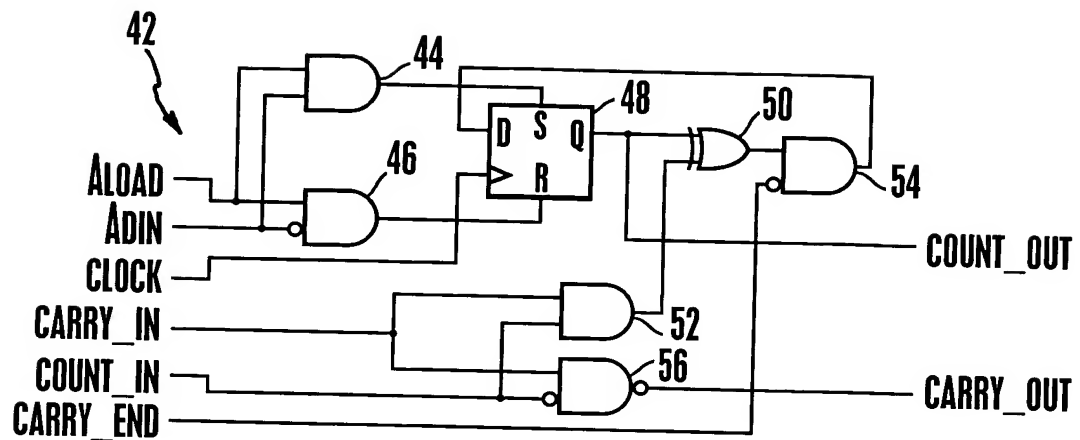


Fig. 3 - Gray Counter One Stage

Fig. 5

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Decimal Change	Gray_count(n')				Gray_count(n)				Carry_count(n)			
	3	2	1	0	3	2	1	0	3	2	1	0
0 to 1	0	0	0	1	0	0	0	0	0	0	0	0
1 to 2	0	0	1	1	0	0	0	1	0	0	0	1
2 to 3	0	0	1	0	0	0	1	1	0	0	0	0
3 to 4	0	1	1	0	0	0	1	0	0	0	1	1
4 to 5	0	1	1	1	0	1	1	0	0	0	0	0
5 to 6	0	1	0	1	0	1	1	1	0	0	0	1
6 to 7	0	1	0	0	0	1	0	1	0	0	0	0
7 to 8	1	1	0	0	0	1	0	0	0	1	1	1
8 to 9	1	1	0	1	1	1	0	0	0	0	0	0
9 to 10	1	1	1	1	1	1	0	1	0	0	0	1
10 to 11	1	1	1	0	1	1	1	1	0	0	0	0
11 to 12	1	0	1	0	1	1	1	0	0	0	1	1
12 to 13	1	0	1	1	1	0	1	0	0	0	0	0
13 to 14	1	0	0	1	1	0	1	1	0	0	0	1
14 to 15	1	0	0	0	1	0	0	1	0	0	0	0
15 to 15	1	0	0	0	1	0	0	0	1	1	1	1
15 to 14	1	0	0	1	1	0	0	0	0	0	0	0
14 to 13	1	0	1	1	1	0	0	1	0	0	0	1

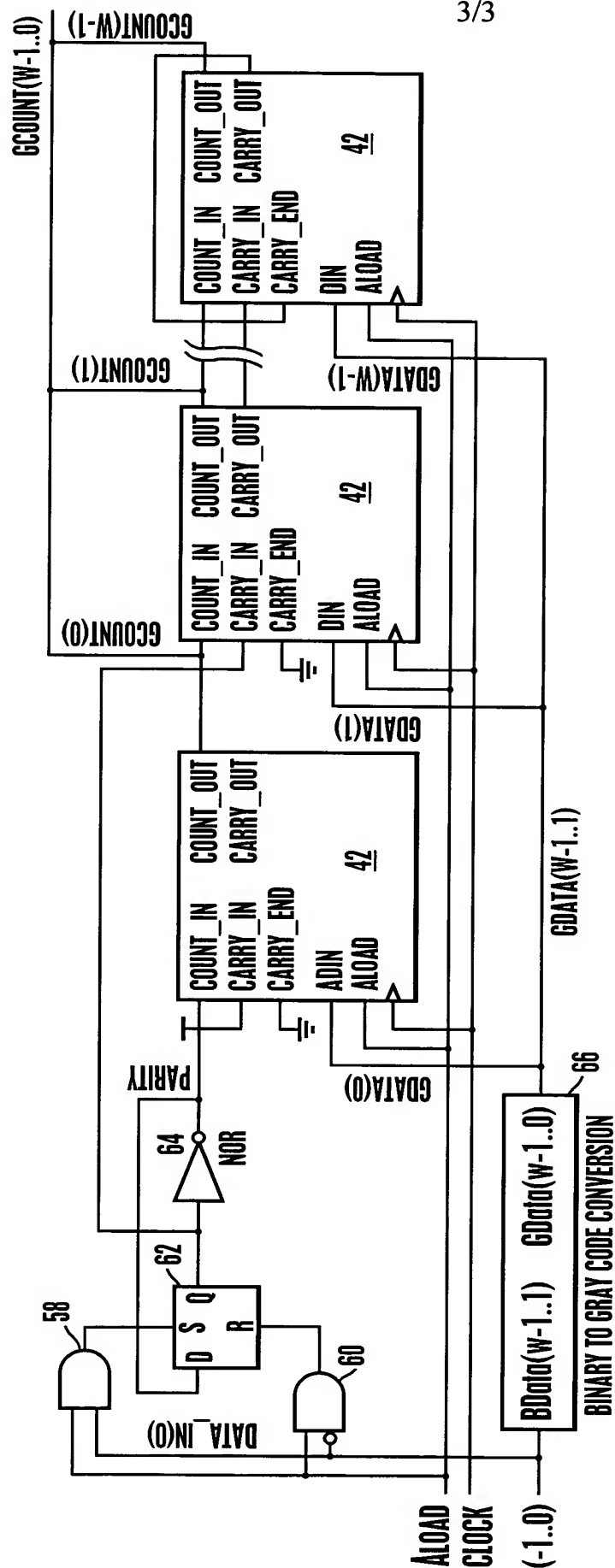


Fig. 4 - Gray Counter w - 1 Stages